

DOCKET NO.: ISIS-3561

PATENT

LISTING OF THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

1-65. (canceled)

66. (currently amended) A method for administering an oligonucleotide into a lung of a mammal, said method comprises:

aerosolizing the oligonucleotide; and

introducing the aerosolized oligonucleotide into the lung of the mammal, wherein the sugar moiety of at least one nucleoside unit of the oligonucleotide is a 2'-O-substituted nucleoside unit.

67. (currently amended) The method of claim 66 wherein said 2'-O-substituent of said 2'-O-substituted nucleoside unit is a 2'-O-alkoxyalkoxy substituent.

68. (currently amended) The method of claim 66 wherein said 2'-O-substituent of said 2'-O-substituted nucleoside unit is a 2'-O-methoxyethyl.

69. (currently amended) The method of claim 66 wherein said 2'-O-substituent of said 2'-O-substituted nucleoside unit is a 2'-O-dialkylaminooxyalkyl substituent.

70. (previously presented) The method of claim 66, 67, 68, or 69 wherein at least one internucleotide linkage within said oligonucleotide is a phosphorothioate linkage.

71. (previously presented) The method of claim 66 wherein at least one internucleotide linkage within said oligonucleotide is a 3'-methylenephosphonate, a non-phosphorous containing oligonucleotide linkage, a 2'-5' linkage or is a 3'-deoxy-3'-amino phosphoramidate linkage.

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72. (previously presented) The method of claim 66 wherein said oligonucleotide is an aqueous media.

73. (previously presented) The method of claim 66 wherein said oligonucleotide is in a sterilized, pyrogen free water.

74. (previously presented) The method of claim 66 wherein said oligonucleotide is a saline solution.

75. (previously presented) The method of claim 66 wherein said oligonucleotide is a powder.

76. (currently amended) The method of claim 66 wherein said mammal animal is known or suspected to suffer from a disease or disorder which may be treated or diagnosed by said oligonucleotide.

77. (previously presented) The method of claim 76 wherein said disease or disorder is asthma, a cancer of the lung, pulmonary fibrosis, rhinovirus, tuberculosis, bronchitis, or pneumonia.